

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) Equipment for the heat treatment of a target zone of biological tissue (410), comprising:

-energy generating means (100) for supplying energy locally in the target zone;
-means (200) for measuring and recording ~~a~~ the temperature in the target zone;
-a control unit (300) comprising means (330) for determining, from the temperature measured in the target zone, ~~an~~ the amount of energy having to be supplied to the target zone ~~necessary to reach and maintain a desired temperature in the target zone~~, and means for controlling (350) the energy generating means (100) to deliver ~~the amount of energy having to be supplied~~ ~~this power value~~;
~~characterized in that~~ the control unit (300) ~~further comprising~~ furthermore comprises means (320) ~~off~~ for numerically processing, point by point, ~~the~~ a spatial temperature distribution in the target zone and its surroundings, in order to calculate temperature gradients.

2. (Currently Amended) The ~~heat treatment~~ equipment as claimed in claim 1, ~~characterized in that~~ ~~wherein~~ the control unit (300) ~~further comprises~~ furthermore comprises means (340) for estimating the local heat energy loses, from an estimate of the heat conduction and of the spatial temperature distribution in the target zone and its surroundings.

3. (Currently Amended) The ~~heat treatment~~ equipment as claimed in ~~one of the preceding claims~~ claim 1, ~~characterized in that~~ ~~wherein~~ the energy generating means (100) emits focused ultrasound.

4. (Currently Amended) The ~~heat treatment~~ equipment as claimed in claim 1 ~~one of the preceding claims~~, ~~characterized in that~~ ~~wherein~~ the means (200) for measuring and recording the spatial temperature distribution ~~further~~ comprise a magnetic resonance imaging apparatus.

5. (Currently Amended) The ~~heat treatment~~ equipment as claimed in claims 1, 2, 3 or 4 ~~one of the preceding claims, characterized in that it comprises further comprising~~ means for evaluating the spatial distribution, in the target zone and its surroundings, of the amount of energy having to be supplied to the target zone.